

# ESL1025 Series

# Product Specifications

ANZ#: Z177e, June 22, 2012

High Power Constant Current LED Driver	
Total Power	25 Watts max.
Input Voltages	120 ~ 277VAC
Number of Outputs	One

## SPECIAL FEATURES

- Universal Input range from 110VAC~304VAC, 50/60Hz
- Linear design and compact size maximizes design flexibility.
- Size: 9.84" (L) x 1.26" (W) x 1.02" (H)
- Fully potted, suitable for dry and damp location applications
- Standard 0-10V dimming; compatible with fluorescent dimmers
- UL8750 and CE compliant
- Wide selection of pre-adjusted C/C outputs

## ENVIRONMENTAL

Operating temperature:	-20 to +50 ° C, Tc: 80 ° C
Storage temperature:	-40 to +85 ° C
Humidity (Non-Condensing):	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 50 Hz
MTBF:	>100,000 Hours at full load and 25°C ambient conditions (MIL-217F)



Picture shown above is not to scale

## SPECIFICATIONS :

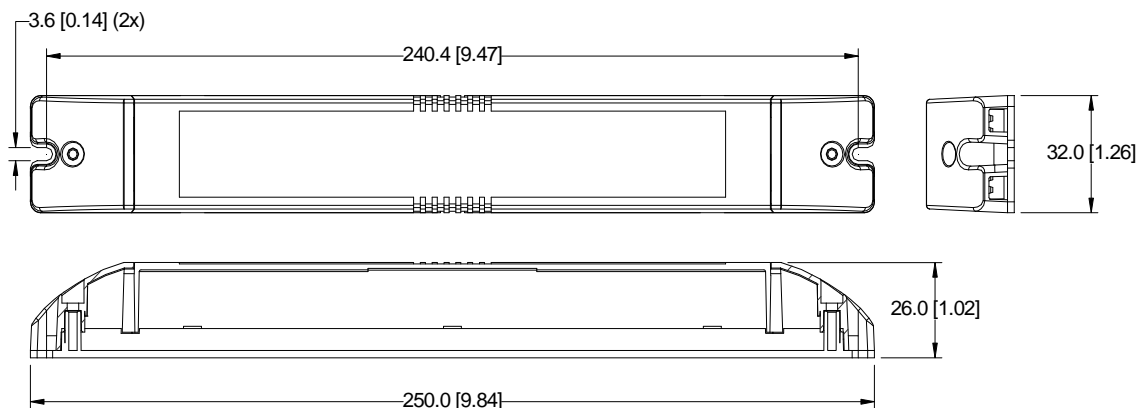
Input Range : 100 ~ 277VAC	Frequency : 47 to 63Hz
Power Factor: > 0.92 at full load, 115VAC or 230VAC	Inrush Current : 20.0 Amps max. at 230VAC, cold start 25°C
Input Current : 0.4 Amps max. at 115VAC	Efficiency : 83% Typical full load
Output Current Regulation : ±5%	Maximum Power : 25W
Protection : OCP, SCP, OLP – Auto Recovery	Leakage Current : 300uA typ.
Dimming method : 0-10V dimmer / fluorescent dimmer	Dimension: 9.84" (L) x 1.26" (W) x 1.02" (H)
Hold up time: Half cycle min. at 120VAC and 80% rated load	Regulation Compliance: UL8750 or EN61347, EN55015, EN61547

## MODEL SELECTION :

Model Number	Constant Voltage Mode			Model Number	Constant Current Mode		
	V (DC)	A (mA)	Max. W		A (mA)	V (DC)	Max. W
<b>ESL1025-24</b>	24, ±5%	1000	25	<b>ESL1025-24-C1400</b>	1400 ~ 1000	14 ~ 25	25
<b>ESL1025-36</b>	36, ±5%	700	25	<b>ESL1025-36-C1000</b>	1000 ~ 700	24 ~ 36	25
<b>ESL1025-48</b>	48, ±5%	500	25	<b>ESL1025-48-C0750</b>	750 ~ 500	30 ~ 50	25
Note: Constant Voltage models are not dimmable				<b>ESL1025-72-C0500</b>	500 ~ 300	40 ~ 72	25

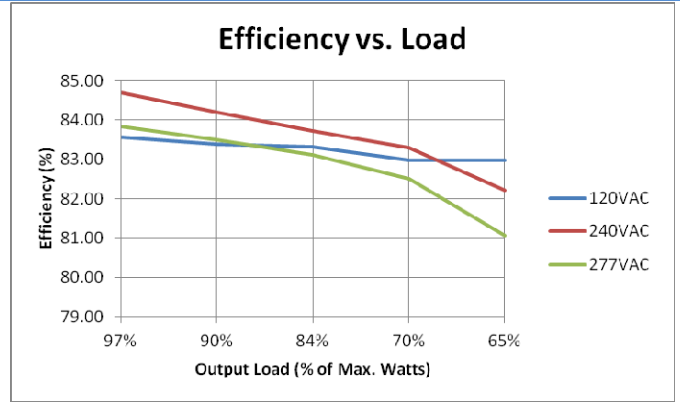
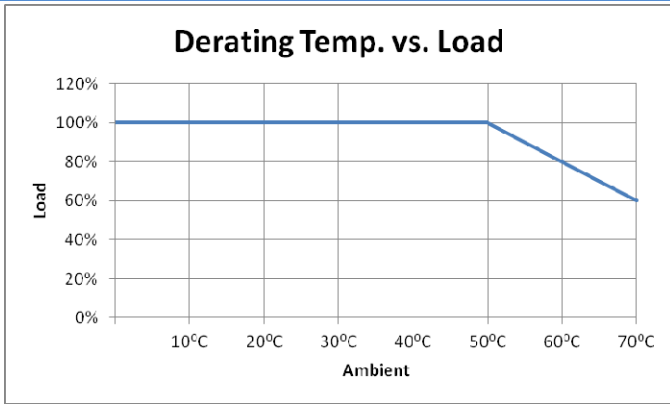
## MECHANICAL SPECIFICATION : ESL1025-XX-YYY

XX = Maximum Forward Voltage (Vf)



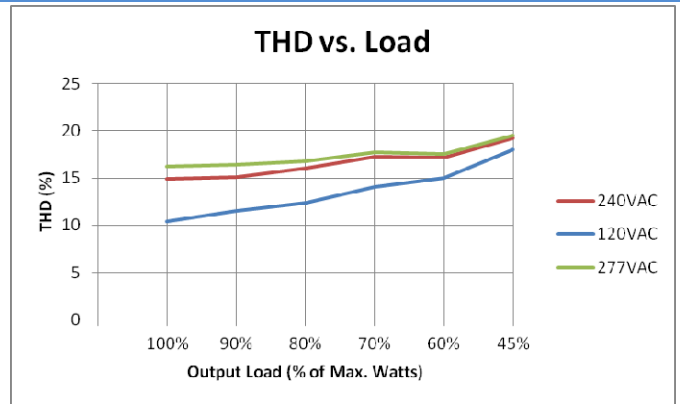
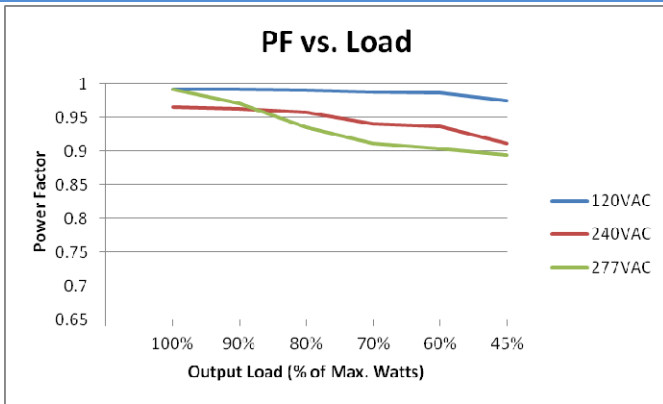
## De-rating Temp. vs. Load

## Efficiency vs. Load

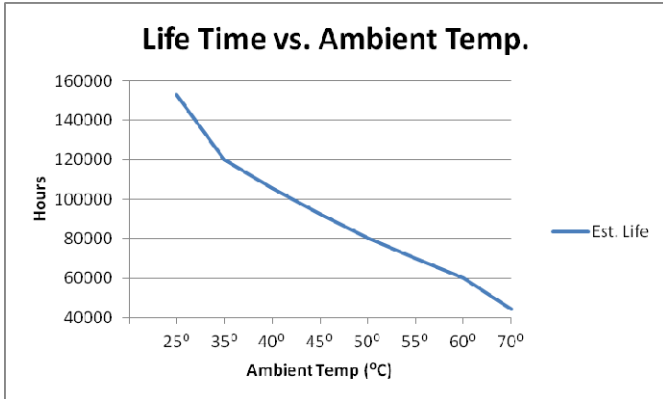


## Power Factor vs. Load

## THD vs. Load



## Life Time vs. Ambient Temp.



## Dimming Wiring Diagram

